07/328790

~~Fig. 1~~

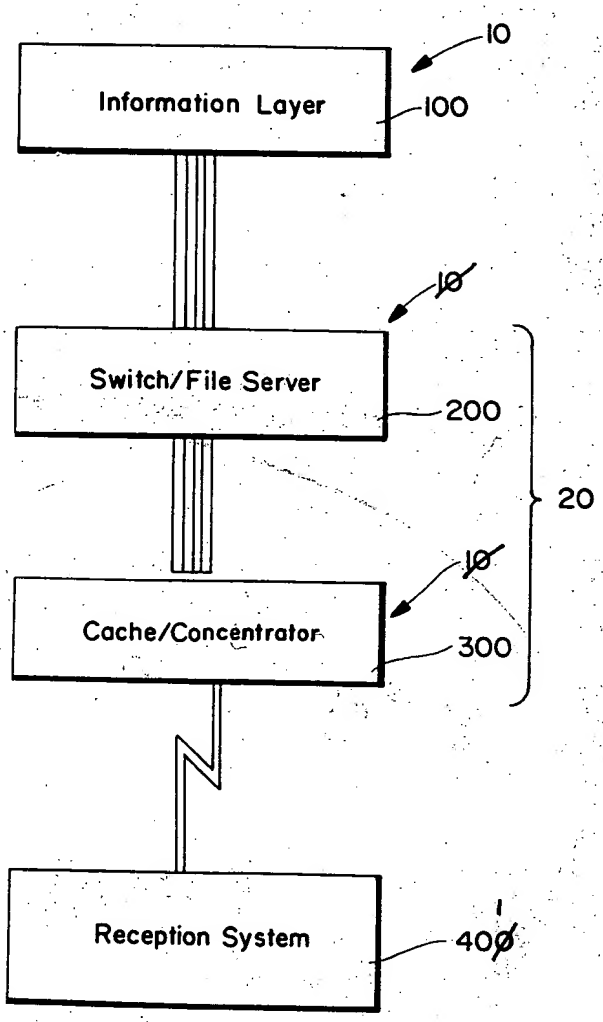


FIG. 1

01/328790

~~Fig. 2~~

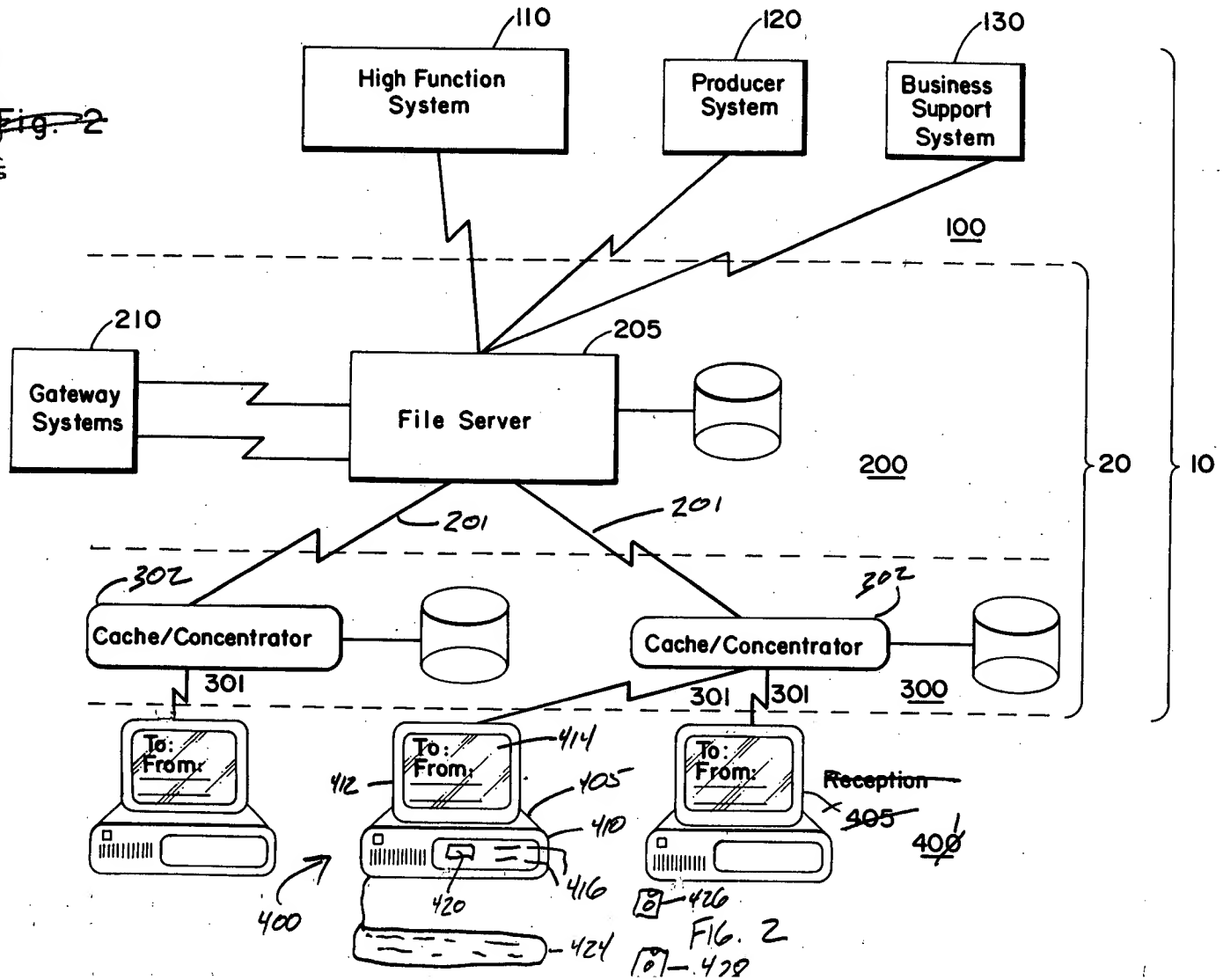


FIG. 2

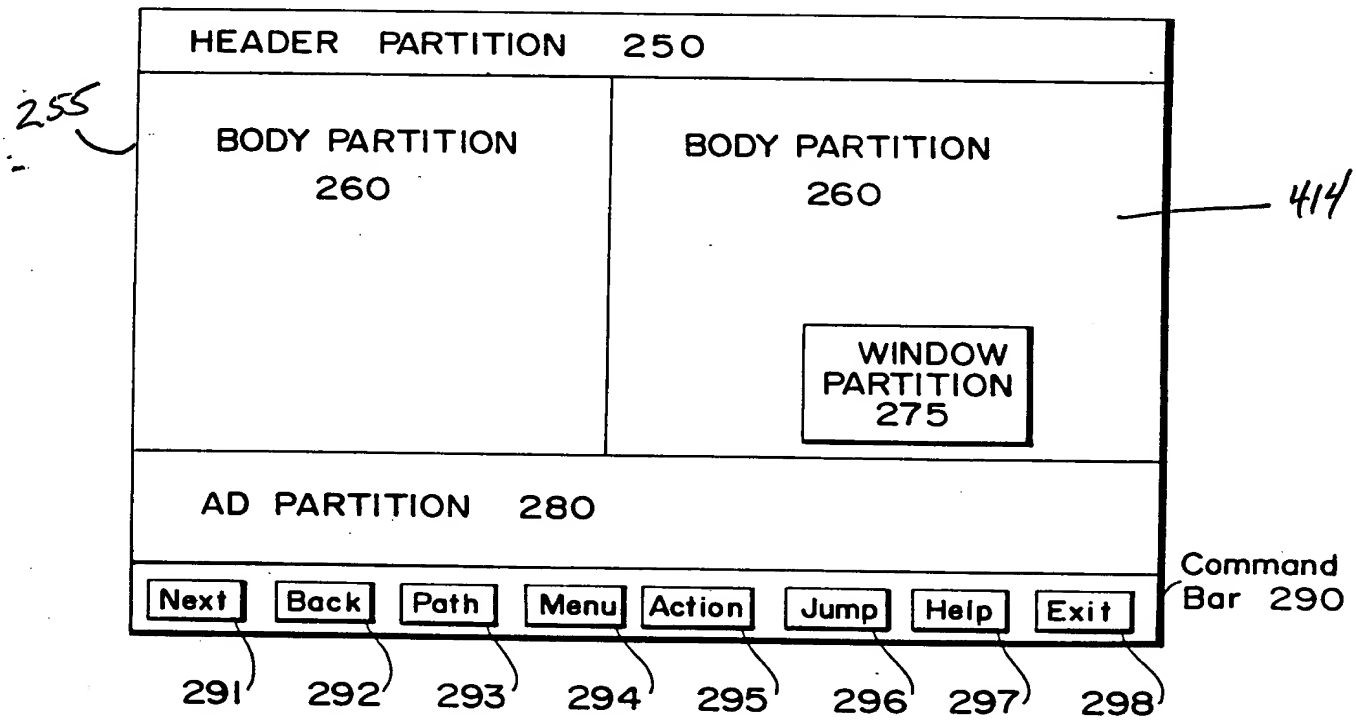
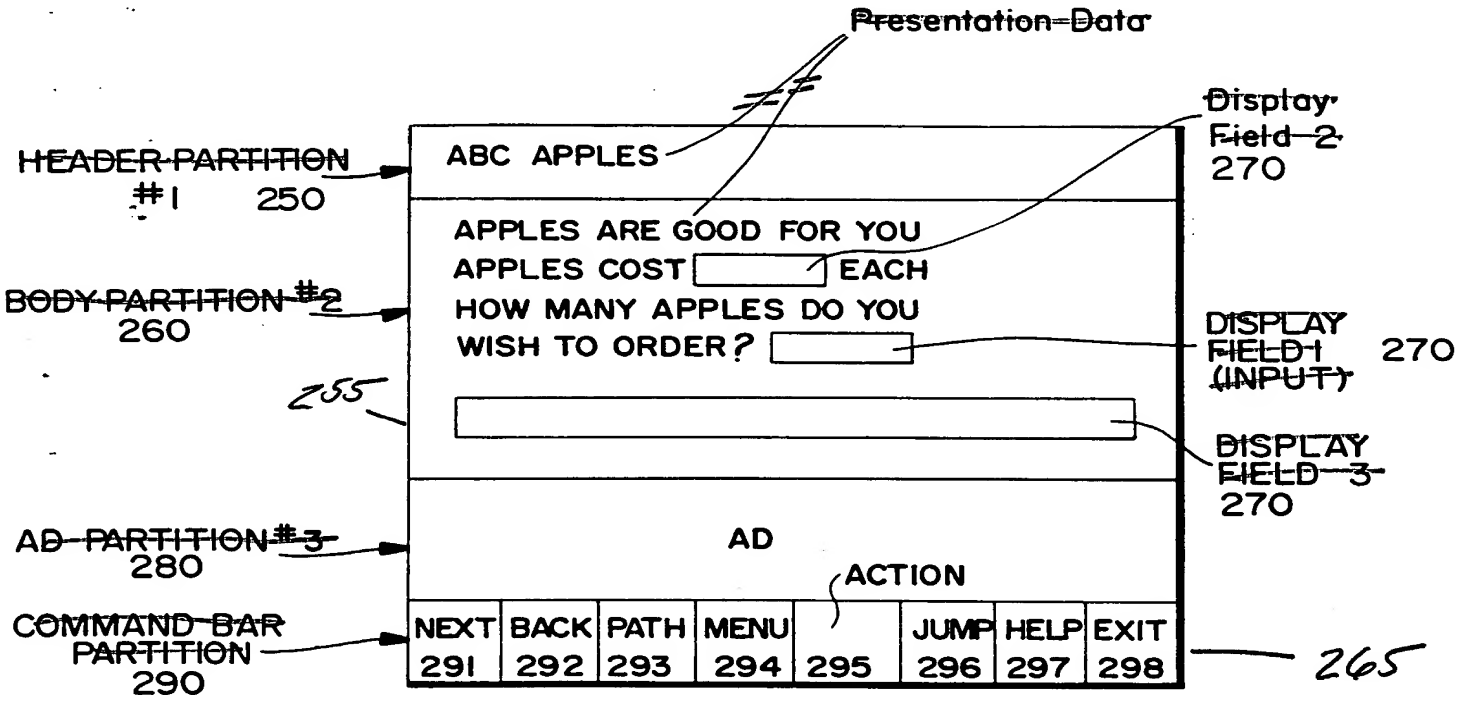

HEADER PARTITION 250
255
BODY PARTITION 260
BODY PARTITION 260
414
WINDOW PARTITION 275
AD PARTITION 280
Command Bar 290
Next
Back
Path
Menu
Action
Jump
Help
Exit
291
292
293
294
295
296
297
298

Fig. 3a



SPECIFIC DISPLAY SCREEN EXAMPLE

Fig. 3b

~~Fig. 4a~~

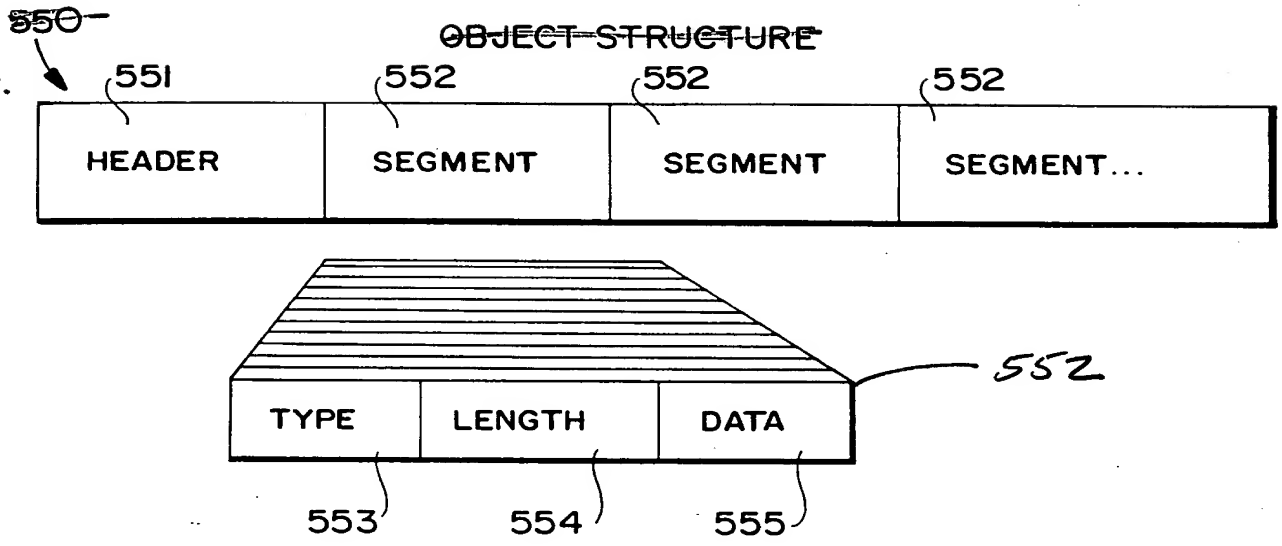

550
OBJECT STRUCTURE
551
552
552
552
HEADER
SEGMENT
SEGMENT
SEGMENT...
552
TYPE
LENGTH
DATA
553
554
555

FIG. 4a

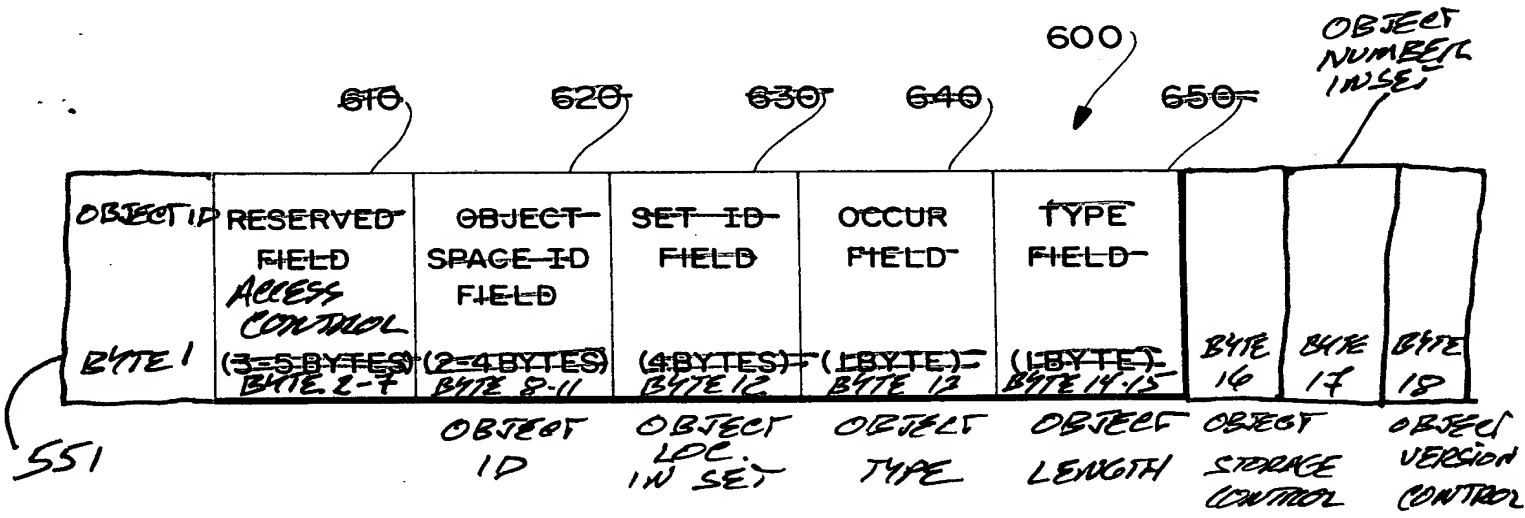

600
OBJECT NUMBER IN SET
610
620
630
640
650
OBJECT ID
RESERVED FIELD
ACCESS CONTROL
OBJECT SPACE ID FIELD
SET ID FIELD
OCCUR FIELD
TYPE FIELD
BYTE 1
(3-5 BYTES)
BYTE 2-7
(2-4 BYTES)
BYTE 8-11
(4 BYTES)
BYTE 12
(1 BYTE)
BYTE 12
(1 BYTE)
BYTE 14-15
BYTE 16
BYTE 17
BYTE 18
551
OBJECT ID
OBJECT LOC IN SET
OBJECT TYPE
OBJECT LENGTH
OBJECT STORAGE CONTROL
OBJECT VERSION CONTROL

Fig. 4b

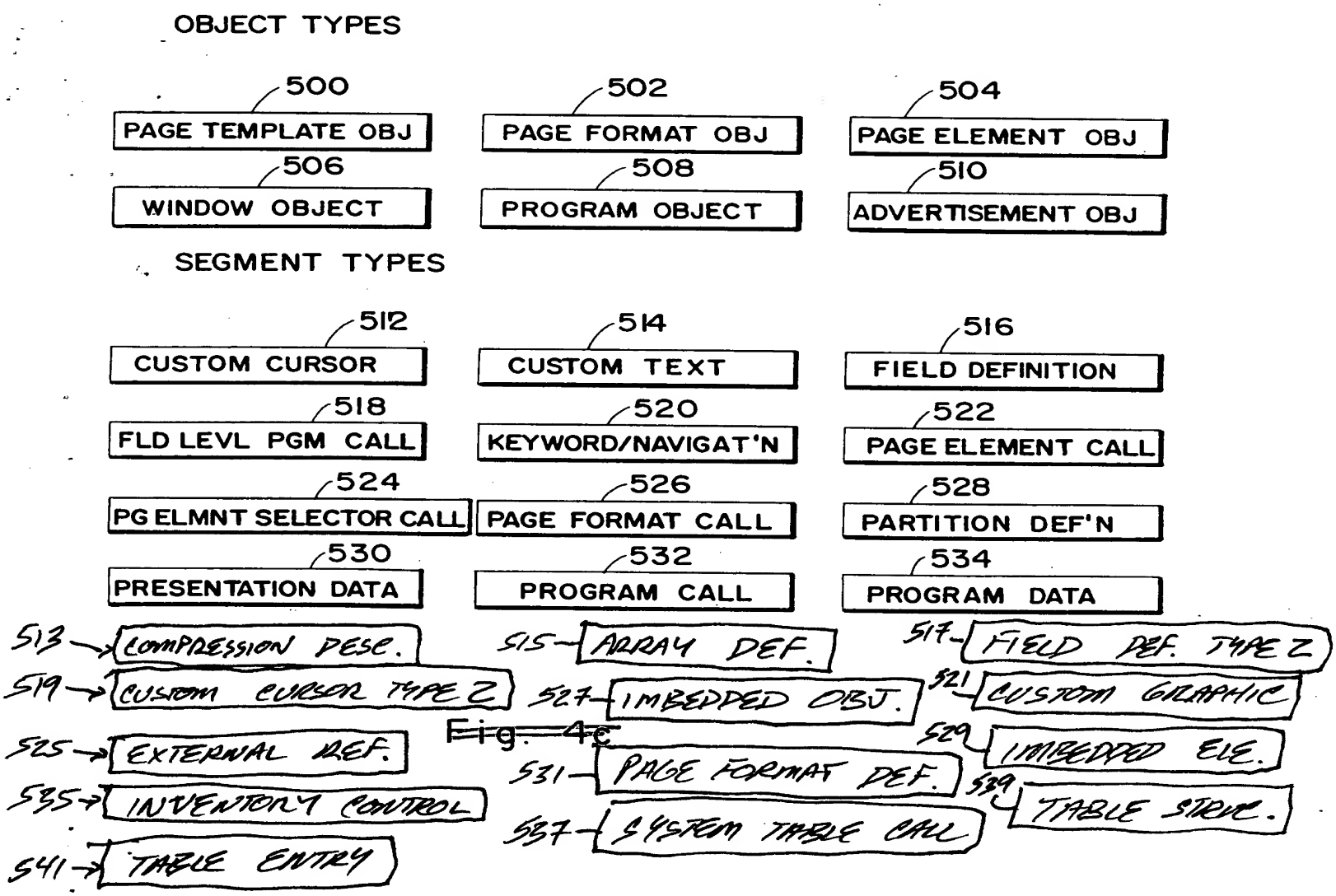

OBJECT TYPES
500
PAGE TEMPLATE OBJ
502
PAGE FORMAT OBJ
504
PAGE ELEMENT OBJ
506
WINDOW OBJECT
508
PROGRAM OBJECT
510
ADVERTISEMENT OBJ
SEGMENT TYPES
512
CUSTOM CURSOR
514
CUSTOM TEXT
516
FIELD DEFINITION
518
FLD LEVL PGM CALL
520
KEYWORD/NAVIGAT'N
522
PAGE ELEMENT CALL
524
PG ELMNT SELECTOR CALL
526
PAGE FORMAT CALL
528
PARTITION DEF'N
530
PRESENTATION DATA
532
PROGRAM CALL
534
PROGRAM DATA
513 COMPRESSION DESC.
515 ARRAY DEF.
517 FIELD DEF. TYPE 2
519 CUSTOM CURSOR TYPE 2
527 IMBEDDED OBJ.
521 CUSTOM GRAPHIC
525 EXTERNAL DEF.
529 IMBEDDED ELE.
531 PAGE FORMAT DEF.
535 INVENTORY CONTROL
539 TABLE STRUC.
537 SYSTEM TABLE CALL
541 TABLE ENTRY

Fig. 4c

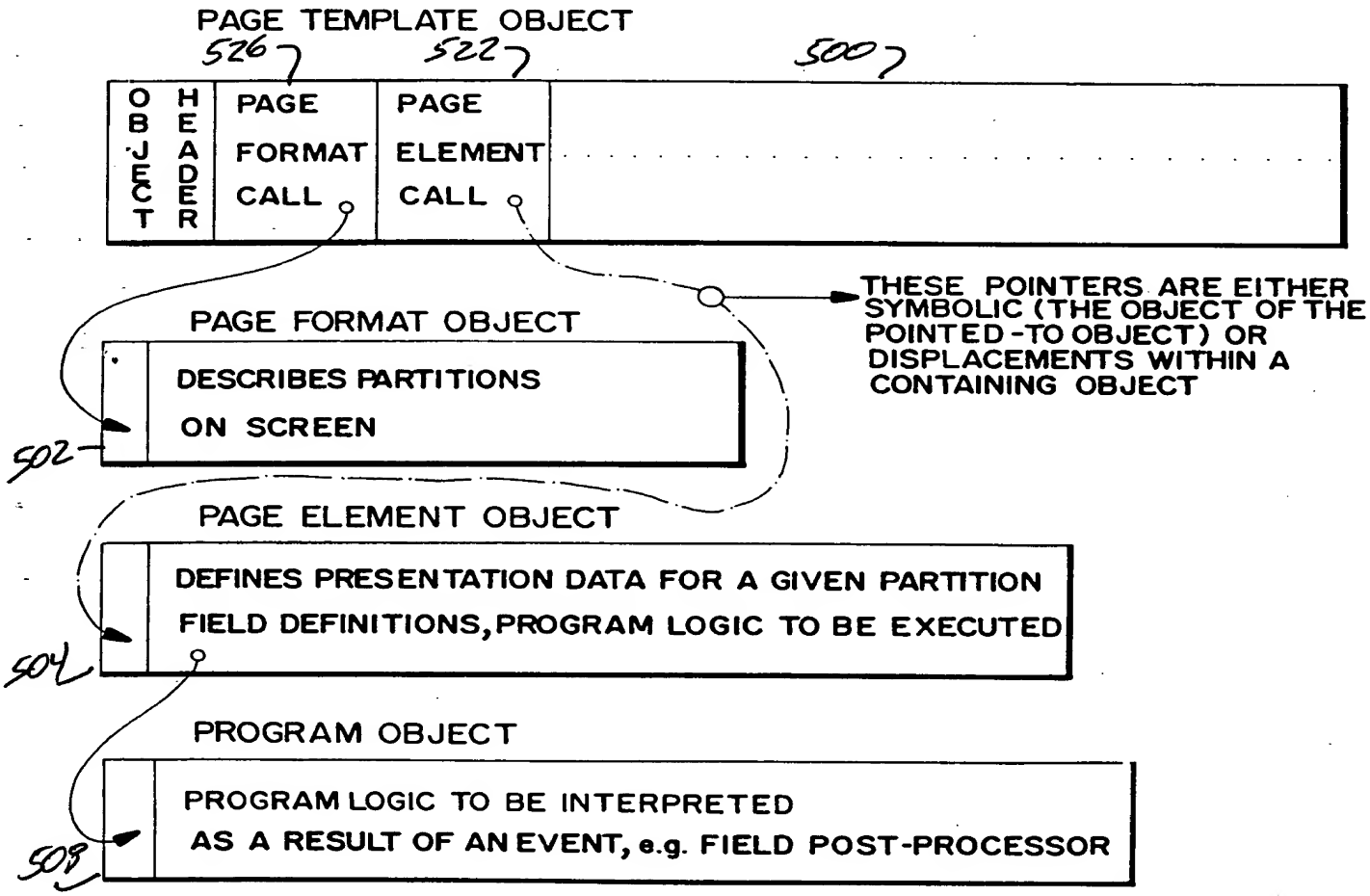

PAGE TEMPLATE OBJECT
526
522
500
OBJECT HEADER
PAGE FORMAT CALL
PAGE ELEMENT CALL
THESE POINTERS ARE EITHER SYMBOLIC (THE OBJECT OF THE POINTED-TO OBJECT) OR DISPLACEMENTS WITHIN A CONTAINING OBJECT
PAGE FORMAT OBJECT
DESCRIBES PARTITIONS ON SCREEN
502
PAGE ELEMENT OBJECT
DEFINES PRESENTATION DATA FOR A GIVEN PARTITION
FIELD DEFINITIONS, PROGRAM LOGIC TO BE EXECUTED
504
PROGRAM OBJECT
PROGRAM LOGIC TO BE INTERPRETED AS A RESULT OF AN EVENT, e.g. FIELD POST-PROCESSOR
508

Fig. 5a

~~Fig. 4d~~

~~OBJECTS: COMPOSITION AND RELATIONSHIPS~~

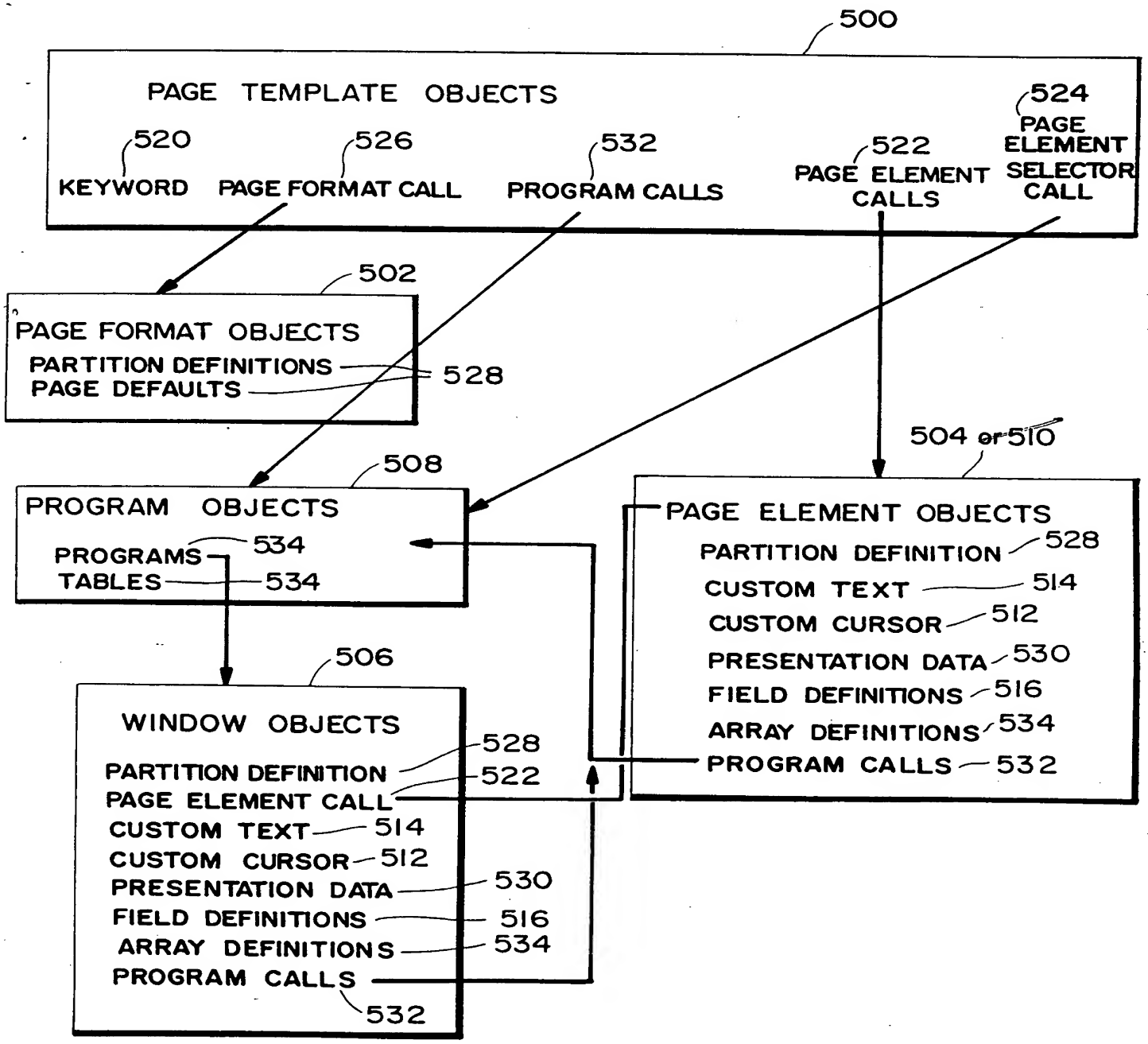


FIG. 4d

~~Fig. 5b~~

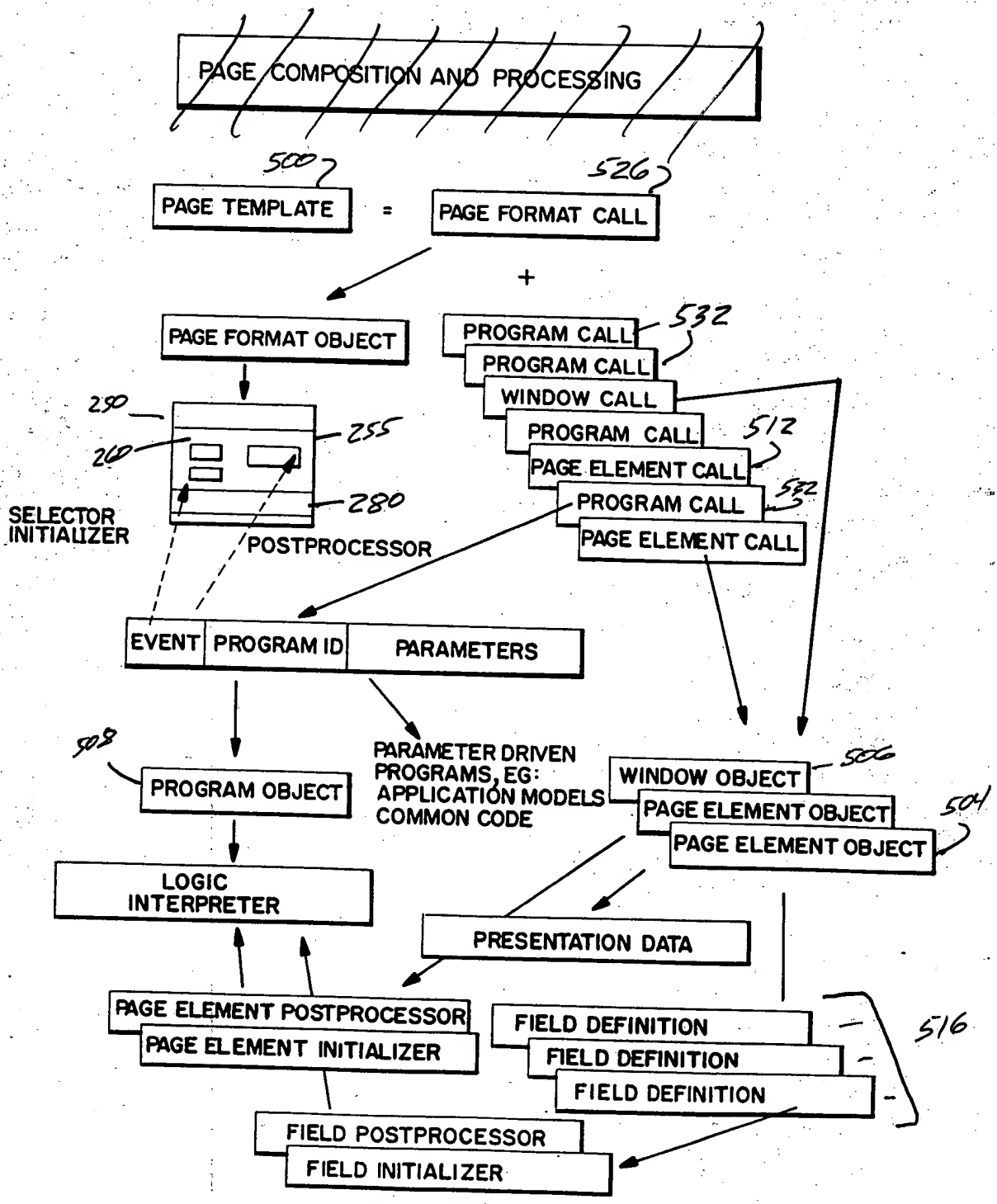

PAGE COMPOSITION AND PROCESSING
500
PAGE TEMPLATE
=
526
PAGE FORMAT CALL
+
PAGE FORMAT OBJECT
PROGRAM CALL
532
PROGRAM CALL
WINDOW CALL
PROGRAM CALL
512
PAGE ELEMENT CALL
PROGRAM CALL
532
PAGE ELEMENT CALL
290
255
200
280
SELECTOR INITIALIZER
POSTPROCESSOR
EVENT
PROGRAM ID
PARAMETERS
508
PROGRAM OBJECT
PARAMETER DRIVEN PROGRAMS, EG: APPLICATION MODELS COMMON CODE
WINDOW OBJECT
506
PAGE ELEMENT OBJECT
504
PAGE ELEMENT OBJECT
LOGIC INTERPRETER
PRESENTATION DATA
PAGE ELEMENT POSTPROCESSOR
PAGE ELEMENT INITIALIZER
FIELD DEFINITION
FIELD DEFINITION
FIELD DEFINITION
516
FIELD POSTPROCESSOR
FIELD INITIALIZER

FIG. 5b.

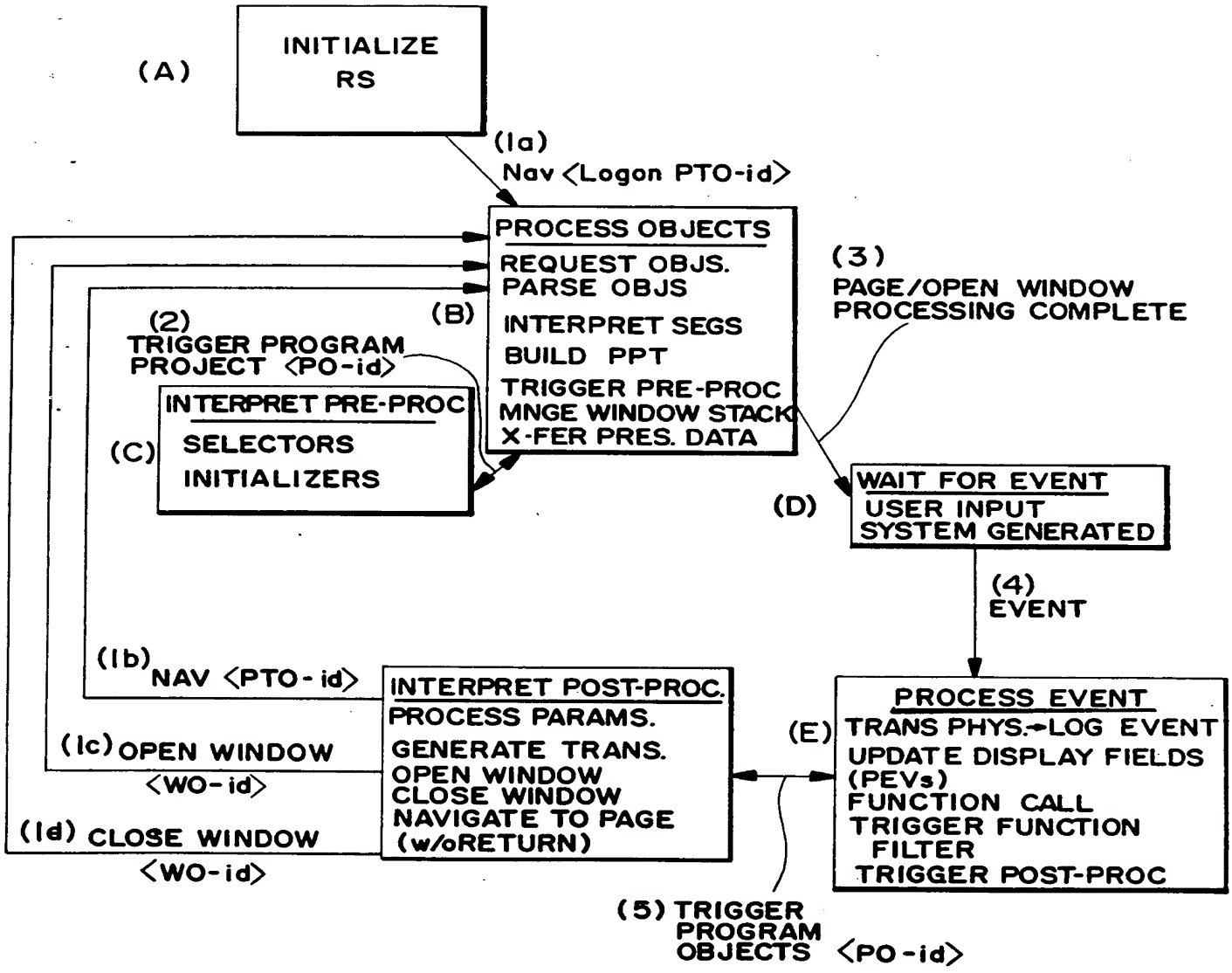
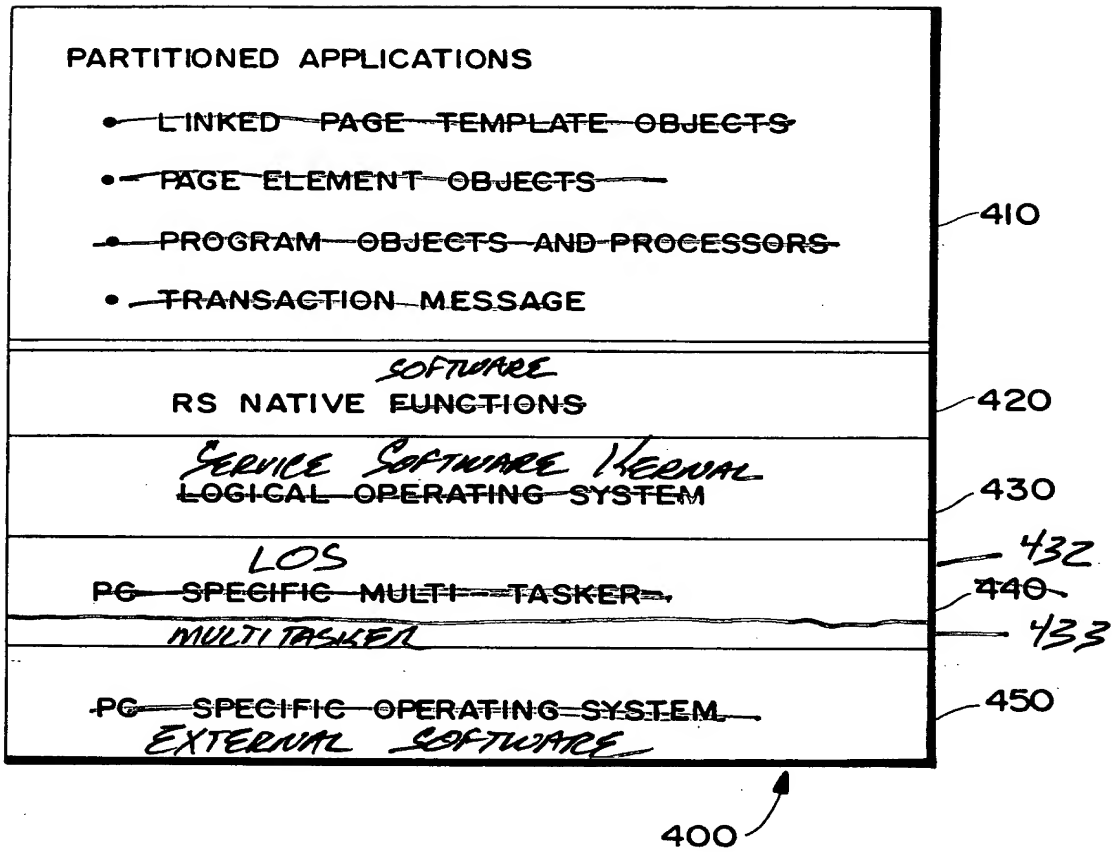


Fig. 6
R.S. PROTOCOL



RECEPTION SYSTEM LAYERS

Fig. 7

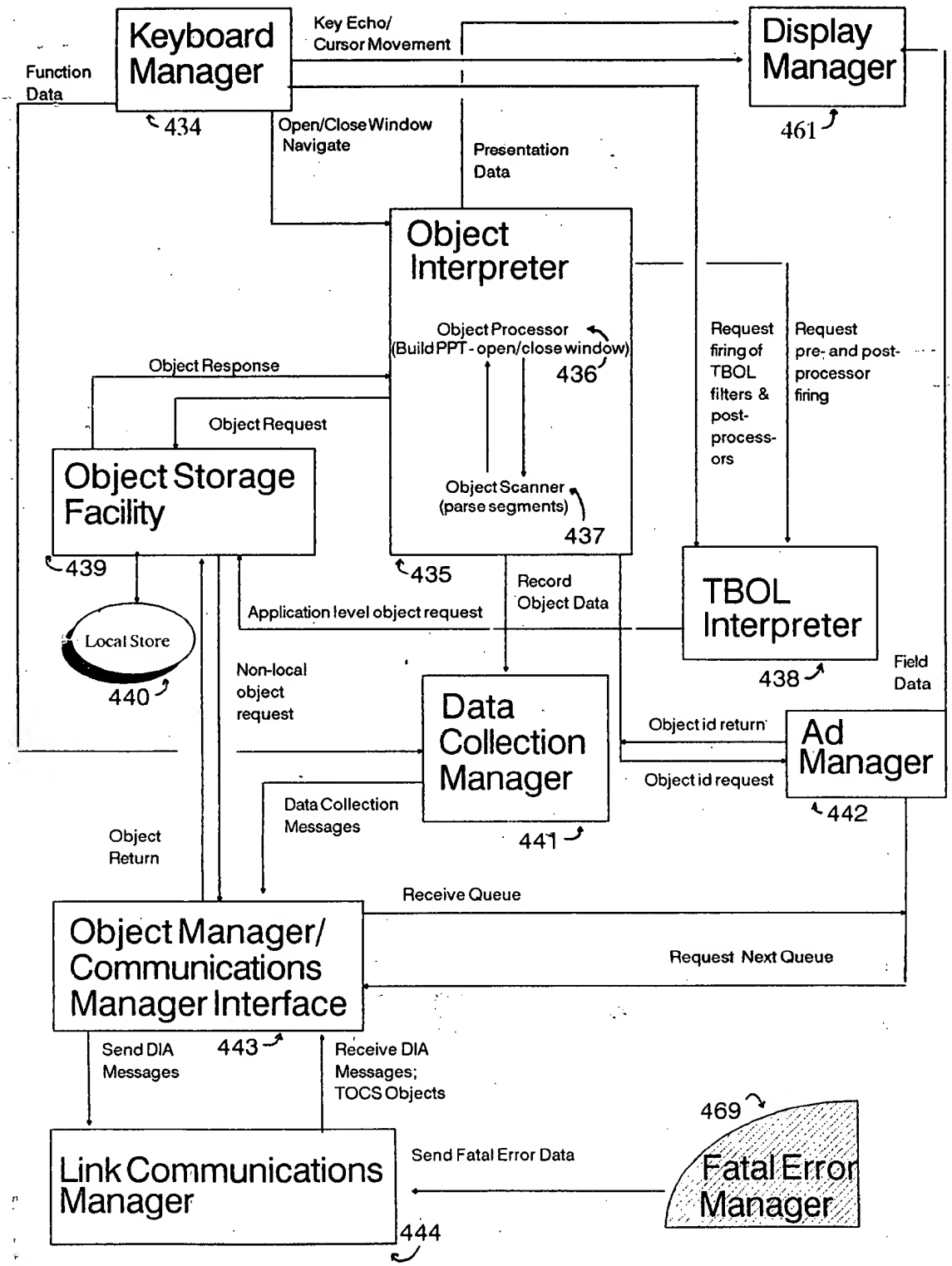

Keyboard Manager
434
Function Data
Key Echo/ Cursor Movement
Display Manager
461
Open/Close Window Navigate
Presentation Data
Object Interpreter
Object Processor (Build PPT - open/close window)
436
Object Response
Object Request
Request firing of TBOL filters & post-process-ors
Request pre- and post-processor firing
Object Storage Facility
439
Object Scanner (parse segments)
437
435
Record Object Data
TBOL Interpreter
438
Application level object request
Local Store
440
Non-local object request
Field Data
Data Collection Manager
441
Object id return
Object id request
Ad Manager
442
Data Collection Messages
Object Return
Receive Queue
Request Next Queue
Object Manager/ Communications Manager Interface
443
Send DIA Messages
Receive DIA Messages; TOCS Objects
469
Link Communications Manager
444
Send Fatal Error Data
Fatal Error Manager

FIG. 8

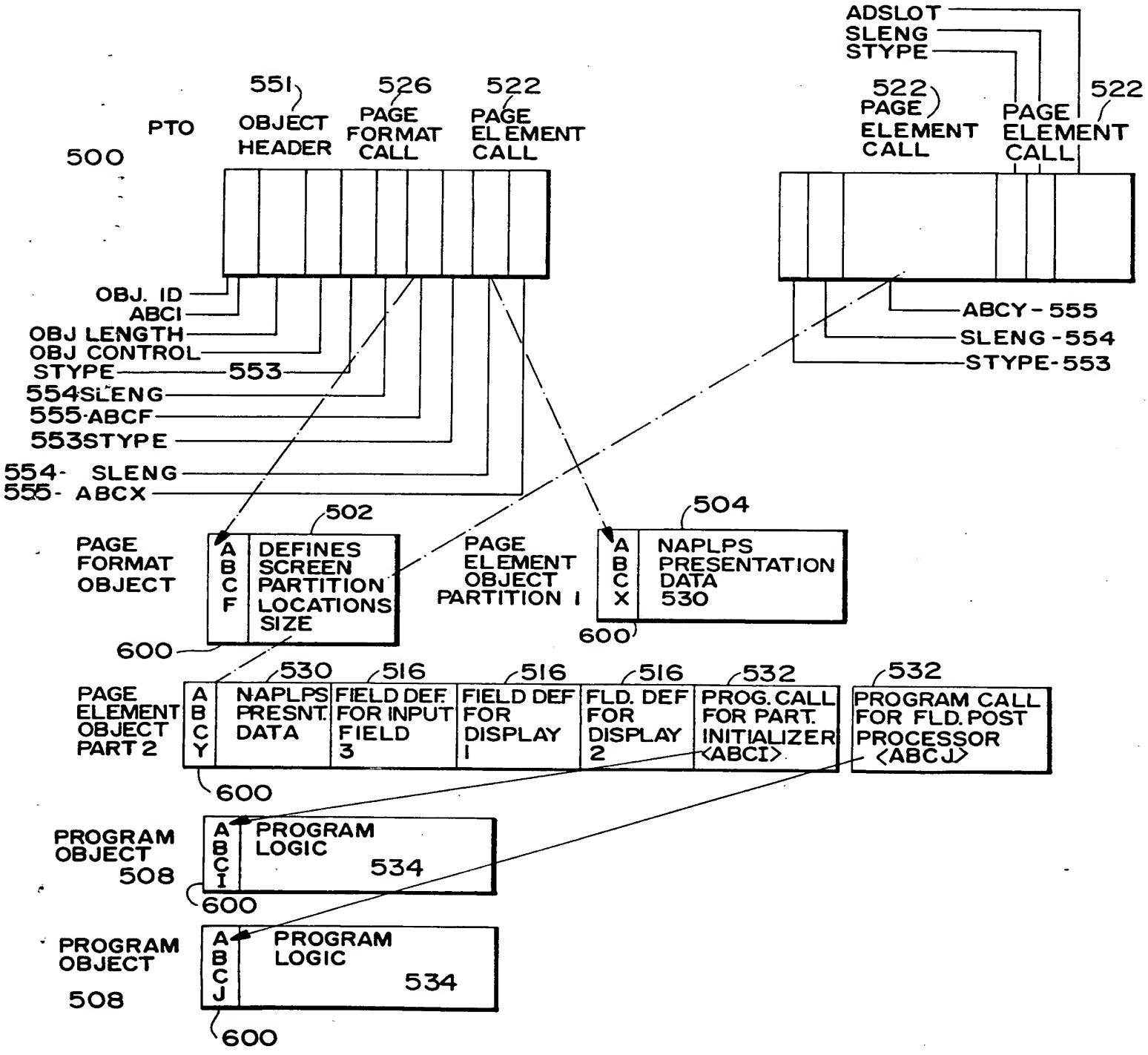

ADSLOT
SLENG
STYPE
551
526
522
522
522
PTO
OBJECT HEADER
PAGE FORMAT CALL
PAGE ELEMENT CALL
PAGE ELEMENT CALL
PAGE ELEMENT CALL
500
OBJ. ID
ABCI
OBJ LENGTH
OBJ CONTROL
STYPE
553
554 SLENG
555 ABCF
553 STYPE
554 - SLENG
555 - ABCX
ABCY - 555
SLENG - 554
STYPE - 553
502
504
PAGE FORMAT OBJECT
A B C F
DEFINES SCREEN PARTITION LOCATIONS SIZE
PAGE ELEMENT OBJECT PARTITION 1
A B C X
NAPLPS PRESENTATION DATA 530
600
600
530
516
516
516
532
532
PAGE ELEMENT OBJECT PART 2
A B C Y
NAPLPS PRESNT. DATA
FIELD DEF. FOR INPUT FIELD 3
FIELD DEF FOR DISPLAY 1
FLD. DEF FOR DISPLAY 2
PROG. CALL FOR PART. INITIALIZER <ABCI>
PROGRAM CALL FOR FLD. POST PROCESSOR <ABCJ>
600
PROGRAM OBJECT 508
A B C I
PROGRAM LOGIC 534
600
PROGRAM OBJECT 508
A B C J
PROGRAM LOGIC 534
600

Fig. 9

~~Fig. 10~~

~~PAGE PROCESSING TABLE (ppt)~~

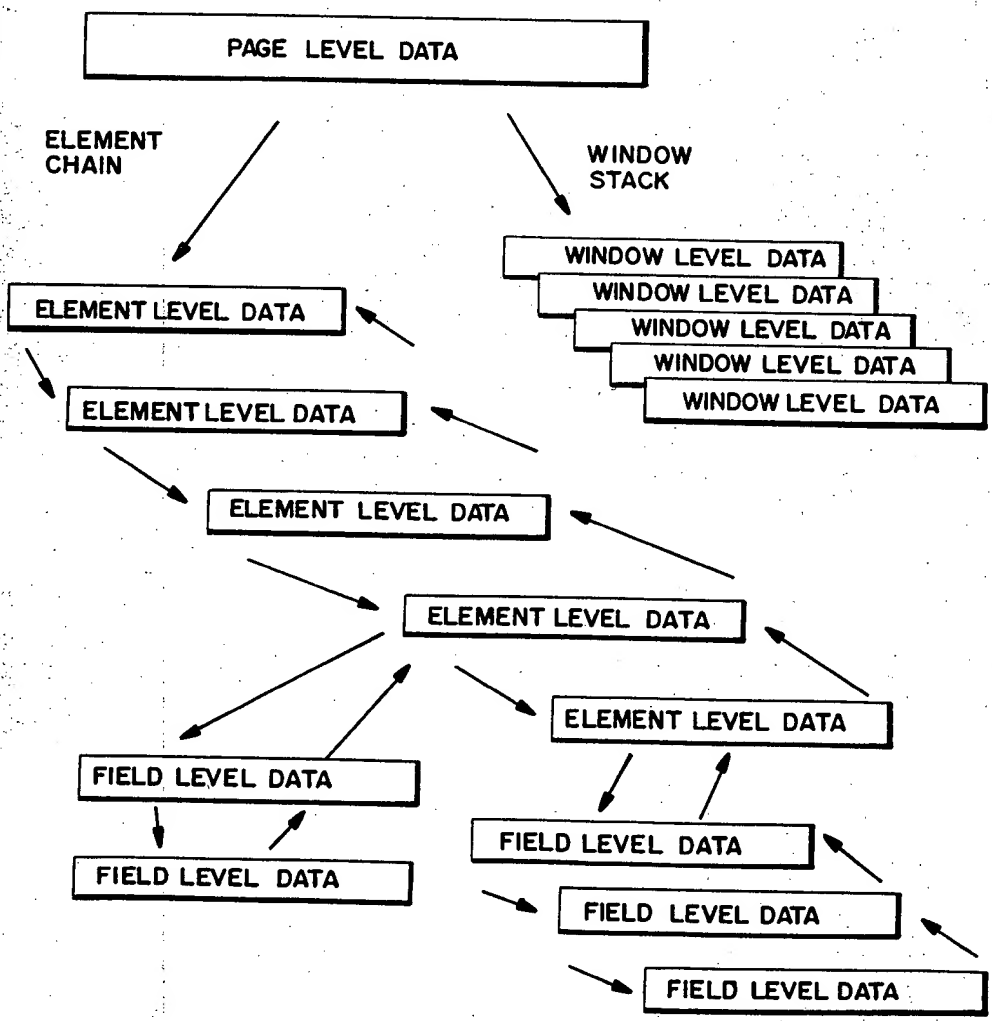


FIG. 10

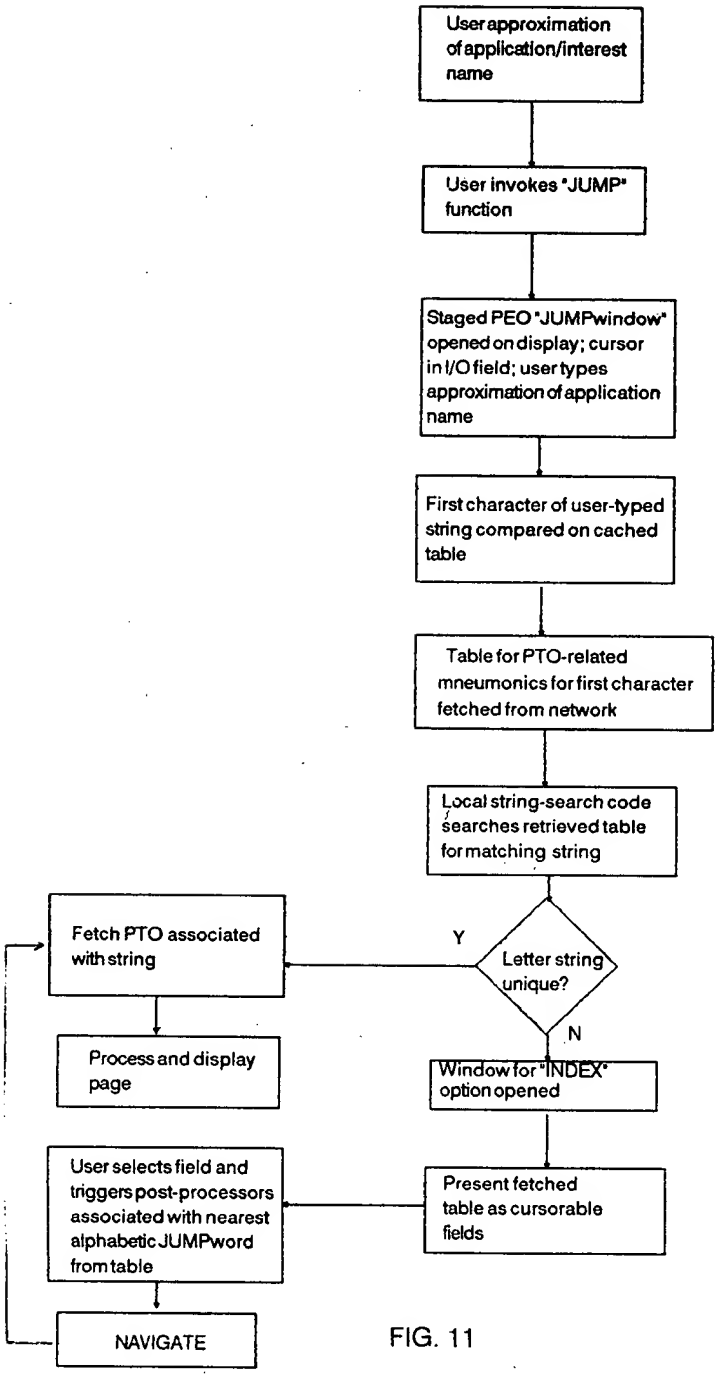

User approximation of application/interest name
User invokes "JUMP" function
Staged PEO "JUMPwindow" opened on display; cursor in I/O field; user types approximation of application name
First character of user-typed string compared on cached table
Table for PTO-related mneumonics for first character fetched from network
Local string-search code searches retrieved table for matching string
Letter string unique?
Y
N
Fetch PTO associated with string
Process and display page
Window for "INDEX" option opened
Present fetched table as cursorable fields
User selects field and triggers post-processors associated with nearest alphabetic JUMPword from table
NAVIGATE

FIG. 11